

**CALIFORNIA ALTERNATIVE ENERGY AND
ADVANCED TRANSPORTATION FINANCING AUTHORITY**
Meeting Date: March 18, 2014

***Notice to Board of Executive Director's Determinations for Specific Parameters under the
Sales and Use Tax Exclusion Program***

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Summary. The regulations for the Sales and Use Tax Exclusion Program (the “Program”) contain several provisions that require the Executive Director of the California Alternative Energy and Advanced Transportation Financing Authority (CAEATFA) to determine various parameters for use by the Authority when evaluating applications for the Program.

The ability to adjust parameters provides CAEATFA with an important tool to respond to the dynamic nature of the technologies and industries served by the Program. These parameters can be updated by the Executive Director when the Executive Director determines that an adjustment of parameters will improve the accuracy of Application evaluations, is required by the regulations, or will otherwise further advance the goals of the Program.

This item is presented for the Board’s information only. No action is required.

Background. In order to evaluate the fiscal and environmental benefits of an application, the evaluation criteria embodied in the Program regulations rely on a number of specific values and parameters that change from time to time. The Executive Director has the regulatory authority to establish the parameters based on relevant research literature, consultation with professional economists or outside experts, information provided by other State agencies, and data provided by the public.

The Blue Sky Consulting Group, CAEATFA’s technical consultant, provided significant input into the selection of the parameters and their initial values, these proposed modifications, and the integration of parameters into the net benefits evaluation.

The Board approved the Program’s initial parameters in September 2010. The most recent update to the parameters was adopted in January 2013.

The following is a list of the specific parameters that the Executive Director has determined should be updated (see Attachment A for justifications provided for each of the assumptions and proposed parameters made to date):

- **Discount Rate.** The discount rate is used to adjust the value of a stream of future costs and benefits such that they reflect a value in current dollars.
- **Current Statewide Average Sales Tax Rate.** The sales tax rate is used to calculate the value of the STE benefit to applicants (and cost to the state).

- **Ratio of State and Local Government Revenues to Gross State Output.** This parameter is used to estimate the additional revenue that state and local governments will collect as a result of the additional economic activity generated by an applicant's project.
- **Applicable Local Property Tax Rate.** The property tax rate is used to estimate the additional property taxes that will be generated by an applicant's purchases of taxable property.
- **Current Annual Average Unemployment Rate for the State and Counties.** Applicants in high unemployment areas are eligible for additional points based on the unemployment rate where the facility is located compared to the statewide average unemployment rate.
- **Pollution Cost Per Megawatt hour of electricity, Gallon of Gasoline Equivalent (GGE), and Million British Thermal Units (MMBTU) for Carbon Dioxide (CO₂).** The pollution cost measures are used to quantify the benefits (in terms of pollution avoided) of an applicant's product.

Attachment A

EXECUTIVE DIRECTOR DETERMINATIONS FOR CHANGES TO PARAMETERS

Discount Rate (§10033.c.1.C.i): 5.10%, based on the state's cost of borrowing as reflected by the yield on a 30 year tax exempt general obligation pursuant to the most recent Debt Affordability Report prepared by the State Treasurer's Office.

Current Statewide Average Sales Tax Rate, STR (§10033.c.1.G.i.a): 8.42%, based on information collected by the California State Board of Equalization.

Ratio of State and Local Government Revenues to Gross State Output, GRSO (§10033.c.1.G.ii.a): 6.44%, based on the sum of the latest four-year average of actual state general fund revenues from the California Department of Finance, the latest four-year average of actual aggregate city and county revenues excluding intergovernmental transfers and service charges from the cities annual report and the counties annual report from the California State Controller's Office, divided by the latest four-year average of gross state product from U.S. Department of Commerce's Bureau of Economic Analysis.

Current Property Tax Rate, PTR (§10033.c.1.G.i.d.i): rates in table below, based on the latest annual average tax rate from the Board of Equalization.

| County | Rate for 2012-13 |
|---------------------|------------------|
| Alameda County | 1.214% |
| Alpine County | 1.000% |
| Amador County | 1.017% |
| Butte County | 1.052% |
| Calaveras County | 1.112% |
| Colusa County | 1.054% |
| Contra Costa County | 1.138% |
| Del Norte County | 1.037% |
| El Dorado County | 1.071% |
| Fresno County | 1.166% |
| Glenn County | 1.050% |
| Humboldt County | 1.043% |
| Imperial County | 1.130% |
| Inyo County | 1.056% |
| Kern County | 1.150% |
| Kings County | 1.026% |
| Lake County | 1.080% |
| Lassen County | 1.027% |
| Los Angeles County | 1.198% |
| Madera County | 1.015% |
| Marin County | 1.100% |
| Mariposa County | 1.006% |
| Mendocino County | 1.123% |

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| County | Rate for 2012-13 |
|------------------------|------------------|
| Merced County | 1.099% |
| Modoc County | 1.027% |
| Mono County | 1.124% |
| Monterey County | 1.085% |
| Napa County | 1.090% |
| Nevada County | 1.053% |
| Orange County | 1.061% |
| Placer County | 1.087% |
| Plumas County | 1.037% |
| Riverside County | 1.097% |
| Sacramento County | 1.117% |
| San Benito County | 1.155% |
| San Bernardino County | 1.149% |
| San Diego County | 1.108% |
| San Francisco County | 1.170% |
| San Joaquin County | 1.107% |
| San Luis Obispo County | 1.019% |
| San Mateo County | 1.099% |
| Santa Barbara County | 1.055% |
| Santa Clara County | 1.203% |
| Santa Cruz County | 1.094% |
| Shasta County | 1.085% |
| Sierra County | 0.952% |
| Siskiyou County | 1.049% |
| Solano County | 1.149% |
| Sonoma County | 1.118% |
| Stanislaus County | 1.118% |
| Sutter County | 1.090% |
| Tehama County | 1.023% |
| Trinity County | 1.022% |
| Tulare County | 1.084% |
| Tuolumne County | 1.061% |
| Ventura County | 1.092% |
| Yolo County | 1.062% |
| Yuba County | 1.118% |

Current Annual Average Unemployment Rate for the State and Counties (§10033.c.5.A.i.): 8.82% for the state (county rates in table below), *based on the most recent annual data from the Employment Development Department.*

| County | 2013 Rate |
|---------|-----------|
| ALAMEDA | 7.33 |

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| <i>County</i> | <i>2013 Rate</i> |
|-----------------|----------------------|
| ALPINE | 10.61 |
| AMADOR | 9.86 |
| BUTTE | 10.22 |
| CALAVERAS | 10.46 |
| COLUSA | 18.18 |
| CONTRA COSTA | 7.30 |
| DEL NORTE | 11.45 |
| EL DORADO | 8.33 |
| FRESNO | 13.02 |
| GLENN | 12.21 |
| HUMBOLDT | 8.58 |
| IMPERIAL | 25.17 |
| INYO | 7.83 |
| KERN | 11.66 |
| KINGS | 13.24 |
| LAKE | 12.64 |
| LASSEN | 10.58 |
| LOS ANGELES | 9.81 |
| MADERA | 11.42 |
| MARIN | 4.94 |
| MARIPOSA | 8.97 |
| MENDOCINO | 7.90 |
| MERCED | 14.63 |
| MODOC | 11.36 |
| MONO | 8.29 |
| MONTEREY | 9.73 |
| NAPA | 6.11 |
| NEVADA | 7.61 |
| ORANGE | 6.04 |
| PLACER | 7.50 |
| PLUMAS | 12.18 |
| RIVERSIDE | 10.23 |
| SACRAMENTO | 8.70 |
| SAN BENITO | 10.87 |
| SAN BERNARDINO | 10.00 |
| SAN DIEGO | 7.35 |
| SAN FRANCISCO | 5.68 |
| SAN JOAQUIN | 12.71 |
| SAN LUIS OBISPO | 6.38 |
| SAN MATEO | 5.34 |
| SANTA BARBARA | 6.55 |
| SANTA CLARA | 6.71 |
| SANTA CRUZ | 9.18 |
| SHASTA | 10.90 |
| SIERRA | 12.08 |

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| <i>County</i> | <i>2013 Rate</i> |
|---------------|----------------------|
| SISKIYOU | 12.63 |
| SOLANO | 8.27 |
| SONOMA | 6.68 |
| STANISLAUS | 12.90 |
| SUTTER | 14.93 |
| TEHAMA | 11.58 |
| TRINITY | 12.71 |
| TULARE | 13.74 |
| TUOLUMNE | 9.43 |
| VENTURA | 7.55 |
| YOLO | 9.33 |
| YUBA | 13.66 |

Pollution Cost Per MWh, GGE, and MMBTU of Carbon Dioxide, Nitrous Oxide and Sulfur Dioxide Released in California and the rest of the United States (§10033.c.2): values in tables below based on benefit values and emission values from the relevant research literature.

Total Cost/MWh

| | CA | US |
|-------|---------|---------|
| NOx | \$ 0.04 | \$ 0.11 |
| SO2 | \$ 0.04 | \$ 1.08 |
| CO2 | \$ 2.75 | \$ 5.67 |
| TOTAL | \$ 2.83 | \$ 6.86 |

Total Cost/GGE

| | \$/Gallon |
|---------|-----------|
| VOC+NOx | \$0.00146 |
| CO2 | \$0.09700 |
| TOTAL | \$0.09846 |

Total Cost/MMBTU

| | |
|-----|-----------|
| CO2 | \$0.58500 |
|-----|-----------|